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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,552	03/23/2004	David J. Craft	POU920030194US1	3421
23334 7	7590 06/19/2006		EXAMINER	
FLEIT, KAIN, GIBBONS, GUTMAN, BONGINI			PORTKA, GARY J	
& BIANCO P.L. ONE BOCA COMMERCE CENTER			ART UNIT	PAPER NUMBER
551 NORTHWEST 77TH STREET, SUITE 111			2188	
BOCA RATON, FL 33487		DATE MAILED: 06/19/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 10/807,552 CRAFT ET AL.  Examiner Gary J. Portka 2188  The MAILING DATE of this communication appears on the cover sheet with the correspondence at Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (3 WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR. 1.136(a). In no event, however, may a reply be timely filed an 1 MO period for reply is specified above, the maximum statutory period will apply and will ergine SIX (6) MONTHS from the mailing date of this careful for reply is a specified above, the maximum statutory period will apply and will ergine SIX (6) MONTHS from the mailing date of this careful for reply visit to reply with the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1,704(b).  Status  1) ☑ Responsive to communication(s) filed on 23 March 2004.  2a) ☐ This action is FINAL. 2b) ☑ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ☑ Claim(s) 1-29 is/are pending in the application.  4a) Of the above claim(s) is/are rejected.  7) ☑ Claim(s) is/are allowed.  6) ☑ Claim(s) is/are allowed.  6) ☑ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The paral 13-29 is/are rejected to by the Examiner.  10) ☑ The drawing(s) filed on 23 March 2004 is/are: a) ☑ accepted or b) ☐ objected to by the Examine Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is requ	30) DAYS,					
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11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form P	FR 1.121(d).					
	TO-152.					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National	l Stage					
application from the International Bureau (PCT Rule 17.2(a)).	J					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) X Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 23 Mar 2004.  5) Notice of Informal Patent Application (PTO)  6) Other:	O-152)					

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### **DETAILED ACTION**

1. Claims 1-29 are presented for examination.

### Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on March 23, 2004 was considered by the examiner.

# Claim Objections

3. Claims 20, 22, 24-25 and 29 are objected to because of the following informalities: Claim 20 states the "method" of claim 14, which is a system. Also, claim 20 appears to be a multiple dependent claim, but actually depends upon claim 16, which itself depends upon claim 14. Claim 22 recites "for for" in line 1. Claims 24, 25, and 29 recites a computer program product comprising additional steps, but the product does not comprise steps, rather instructions that perform steps. Appropriate correction is required.

# Claim Rejections - 35 USC § 101

- 35 U.S.C. 101 reads as follows:
  - Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.
- 5. Claims 22-29 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 22 recites a storage medium with instructions *for* execution *for* performing a method, but does not actually state executing the instructions, or performing the method. These claims could be read on a disk or similar medium containing the program, without regard to whether the medium is

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actually implemented for a practical use. Claims 23-29 incorporate this limitation by dependency.

# Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 4-7, 13-21, and 25-28 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 4-6, 13-15, 18, and 25-27 recite "similarly sized" buffers, but the specification does not define this term with enough specificity to determine the metes and bounds encompassed thereby. Claims 7, 16-17, 19, and 28 incorporate this limitation by dependency.

### Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 10. Claims 1-6, 8-9, 14-15, 17-18, 21-27 and 29 are rejected under 35 U.S.C. 102(e) as being anticipated by Robinson et al., US 6,901,483 B2.

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11. As to claims 1, 3-4, 8-9, 14-15, 17-18, 21-22, 24-25, and 29, Robinson discloses the *method, system, and computer program product* as recited (generally, see Abstract, and col. 3 lines 16-27 and 35-41), including *stealing a memory buffer by storing at least a portion of cached data in the buffer to a secondary memory, storing received data in the buffer where the cached data was previously stored (see col. 5 lines 22-31), and creating a buffer steal history record ("small FIFO"), which includes a unique identifier ("addresses of lines recently evicted") for a location in the secondary memory of the cached data, and is used to determine whether a subsequent request for stealing the memory buffer is a re-access of the cached data previously written to the secondary memory (see col. 6 lines 38-61). Any buffer must be partitioned into one or more subgroups containing similarly sized buffers to the extent recited.* 

12. As to claims 2, 5-6, 23, and 26-27, a sequence number is included since the history is a FIFO, where the items are numbered by virtue of their position in the FIFO.

# Allowable Subject Matter

13. Claims 10-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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6,049,850 Data replacer tracks cache fall through to control recycling of cache locations.

5,274,790 Cache access history used to optimize cache replacement control.

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary J. Portka whose telephone number is (571) 272-4211. The examiner can normally be reached on M-F 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on (571) 272-4210. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gary J Portka Primary Examiner Art Unit 2188

June 8, 2006

GARY PORTKA
PRIMARY EXAMINER

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